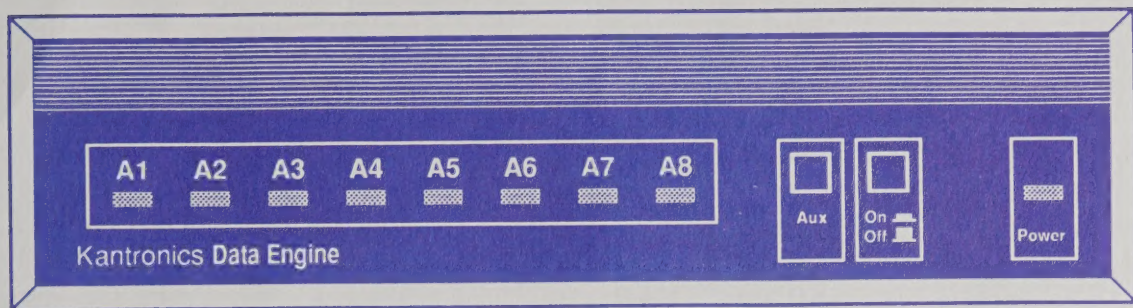




ACTUAL SIZE

The Kantronics Data Engine

The Next Generation High-Performance Terminal Node Controller (TNC)

The DATA ENGINE is the next generation TNC. It features dual-radio ports, high speed capability, and can accommodate two internal or external modems.

The DATA ENGINE is shipped from the factory with end-user AX.25 firmware and one 1200 baud modem installed. End-user firmware includes terminal mode, host mode, BBS mode and KISS mode. The modem uses standard 1200 baud tones and has three carrier detect options, all user selectable from the keyboard.

The DATA ENGINE is designed with an open architecture, enhancing its capability to be used as a backbone NODE, high-speed TNC or BBS station. Firmware parameters allow for large BBS station operation (such as WØRLI). Modem disconnect headers provide for easy installation of internal or external modems (factory or experimental).

The V40 processor, with 10 MHz clock, and sockets for EPROM and RAM allow up to 1/2 Megabyte of firmware and 1/2 Megabyte of RAM. In addition, the front panel features eight V40 controlled LEDS and two dead-front windows for future modems with LED indicators. Finally, for experimenters, a developer's manual is available.

The DATA ENGINE was first demonstrated at the Eighth Annual Computer Networking Conference, and has passed FCC Part 15 certification tests at a NBS certified lab.

The Kantronics DATA ENGINE (DE) is the next generation high-performance TNC.

Suggested Retail \$369.00

Features

- Open architecture
- Hi-speed – Dual port
Each port capable of greater than 56KB, full or half duplex, depending on installed modem
- One optional 1200 baud modem installed, with enhanced carrier detect included, see back
- Hardware HDLC 85C30
- V40 processor, 10 MHz (PC compatible family)
- RS-232 rates to 19.2 Kbaud
- 20 bit address space
- Battery backed-up RAM and real-time clock
- 64 K-Bytes EPROM, expandable to 1/2 Megabyte
- 64 K-Bytes RAM, expandable to 1/2 Megabyte
- Processor watchdog timer
- Internally pluggable modem disconnect header
- External modem disconnect capability
- Host mode, KISS mode, BBS mode
- PBBS and Gateway
- Made in U.S.A.
- Size: 1-3/4" x 6" x 9", 2-1/2 lbs. (same case as KAM)
- Low Power: nominally 150 ma @ 12 VDC with DE1200 installed
- Connectors and cable included

Options

- Additional 1200 baud modem
- Modem development board
- Developer's manual
- Additional modems under development

Kantronics

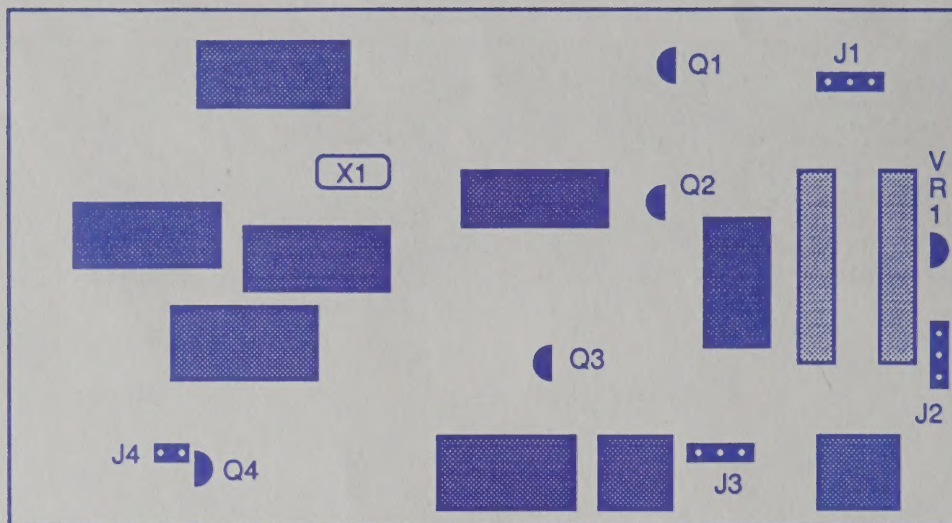
RF Data Communications Specialists

1202 E. 23rd Street, Lawrence, KS 66046

(913) 842-7745

FAX (913) 842-2021

BBS (913) 842-4678



DE1200 Modem

The DE1200 modem is an AX.25 compatible 1200 baud modem designed for internal installation in the Kantronics DATA ENGINE (DE). One DE1200 is installed with each DE leaving the factory. A second DE1200 may be installed in port two, providing for simultaneous dual-port operation.

The DE1200 features a number of at-installation jumper selectable options: AFSK drive level (Low-Medium-High), equalization (None-Partial-Full), hand-held (HT) compatibility (On-Off), PTT watchdog disable (On-Off), and V.23 standard (add a wire jumper).

In addition, the DE1200 has three keyboard selectable carrier detect options: sine wave, energy, or external. These are selectable by using the DE MODEM command. If external is selected, you will rely on the CD of your transceiver. When the sine wave is selected, the DE1200 sets CD whenever audio sine waves are received; that is, when there is the presence of packet tones. In this mode the DE is not held from transmitting just by the presence of noise.

For more information on the DE1200 and its interconnection and operation with the Kantronics DATA ENGINE, consider purchasing the DATA ENGINE Operator's Manual.

DE1200 MODEM suggested retail \$79.95

Features

- Installs in Kantronics DATA ENGINE
- AX.25 compatible
- Three keyboard selectable carrier detect modes:
 - Sine wave
 - Energy
 - External
- TC3105 integrated circuit modem
- Full Duplex capable
- Dynamic range >50dB
- Board-level jumper selectable options:
 - AFSK drive level
 - Equalization
 - HT operation
 - Watchdog disable
 - V.23 tones

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